



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 6  
HOUSTON BRANCH  
10625 FALLSTONE RD.  
HOUSTON, TEXAS 77099

RECEIVED

2006 MAR 28 PM 3:32

AR/OK/TX BRANCH

MEMORANDUM

Date: March 20, 2006

Subject: Contract Laboratory Program Data Review

From: *Marvely Humphrey*, ESAT Regional PO, SMD-HE

To: V. Malott ,6SF-AP

Site : JONES ROAD GROUND WATER PLUME

Case#: 35059

SDG# : F1ZD0

The EPA Region 6 Houston Branch ESAT data review team has completed a review of the submitted Contract Laboratory Program (CLP ) data package for the referenced site. The samples analyzed and reviewed are detailed in the attached Regional data review report.

The data package is acceptable for regional use. Problems, if any, are listed in the report narrative.

If you have any questions regarding the data review report, please call me at (281) 983-2140.



198764

LOCKHEED MARTIN SERVICES GROUP  
ESAT REGION 6  
10625 FALLSTONE ROAD  
HOUSTON, TEXAS 77099

**MEMORANDUM**

**DATE:** March 17, 2006

**TO:** Marvelyn Humphrey, ESAT PO, Region 6

**FROM:** Tom C.H. Chiang, ESAT Program Manager, Region 6 *Jan. 4, 2006*

**SUBJECT:** CLP Data Review

**REF:** TDF # 6-05-526A                    ESAT # O-0937  
    ESAT Contract No. 68-W-01-030

Attached is the data review summary for Case # 35059  
    SDG # F1ZD0  
    Site Jones Road Ground Water Plume

**COMMENTS:**

I. LEVEL OF DATA REVIEW

Modified full review was performed for this data package.

II. CONTRACTUAL ASSESSMENT OF THE DATA PACKAGE

CCS and hardcopy review found the data package contractually compliant.

III. TECHNICAL USABILITY ASSESSMENT OF THE DATA PACKAGE

The total number of sample results reviewed was 250 for this data package. One result was qualified because of a minor technical problem.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 6  
HOUSTON BRANCH  
10625 FALLSTONE ROAD  
HOUSTON, TEXAS 77099

ORGANIC REGIONAL DATA ASSESSMENT

CASE NO.	35059	SITE	Jones Road Ground Water Plume
LABORATORY	LIBRTY	NO. OF SAMPLES	5
CONTRACT#	68-W-01-043	MATRIX	Water
SDG#	F1ZDO	REVIEWER (IF NOT ESB)	ESAT
SOW#	OLC03.2	REVIEWER'S NAME	Wallace Doong
ACCT#	6302DD2CJN07	COMPLETION DATE	March 17, 2006
SF#	302DD2CNK		

SAMPLE NO.	F1ZDO	F2025				
	F2021					
	F2022					
	F2024					

DATA ASSESSMENT SUMMARY

VOA

1. HOLDING TIMES	O
2. GC/MS TUNE/INSTR. PERFORM.	O
3. CALIBRATIONS	O
4. BLANKS	M
5. DMC/SURROGATES	O
6. MATRIX SPIKE/DUPLICATE/LCS	O
7. OTHER QC	O
8. INTERNAL STANDARDS	O
9. COMPOUND ID/QUANTITATION	O
10. PERFORMANCE/COMPLETENESS	O
11. OVERALL ASSESSMENT	M

O = Data had no problems.

M = Data qualified due to major or minor problems.

Z = Data unacceptable.

NA = Not applicable.

ACTION ITEMS:

AREAS OF CONCERN: One acetone result was qualified because of laboratory contamination.

NOTABLE PERFORMANCE: The data package arrived one calendar day early for the seven-day turnaround requirement.

COMMENTS/CLARIFICATIONS  
REGION 6 CLP QA REVIEW

Jones Road  
**CASE 35059 SDG F1ZD0 SITE Ground Water Plume LAB LIBRTY**

The following is a summary of sample qualifiers used by Region 6 in reporting this CLP data:

No.	Acceptable	Provisional	Unacceptable
VOA	4	1	

**COMMENTS:** This SDG, contracted under SOW OLC03.2, consisted of five samples for VOA analysis. The OTR/COC Records designated sample F1ZD0 as the laboratory QC sample, sample F2021 as a trip blank, and sample F2022 as a field blank. Both field QC samples were associated with the field samples in this SDG. The RSCC verified that samples F2024 and F2025 were field duplicates of samples F1Z52 and F1YY7 in SDG F1YY7, respectively. The data package was contractually compliant and arrived one calendar day early for the seven-day turnaround requirement.

Modified full review was performed on this package as requested by the TDF. The target compounds of concern with the user's desired detection limits in parentheses were vinyl chloride (2 µg/L), trans-1,2-dichloroethene (7 µg/L), cis-1,2-dichloroethene (7 µg/L), and tetrachloroethene (5 µg/L). All samples met the desired detection limit requirements. The target compounds of concern were not detected in any sample.

The target compound not designated as a compound of concern that was detected at a concentration above the CRQL was laboratory contaminant acetone.

The acetone result was qualified for sample F2022 because of a laboratory contamination problem. The technical usability of all reported results is indicated by ESAT's final data qualifiers in the Data Summary Table (DST). An Evidence Audit was conducted for the Complete Sample Delivery Group File (CSF), and the audit results were reported on the Evidence Inventory Checklist.

**NOTE:** THE FOLLOWING REVIEW NARRATIVE ADDRESSES BOTH CONTRACTUAL ISSUES (BASED ON THE STATEMENT OF WORK) AND TECHNICAL ISSUES (BASED ON THE NATIONAL FUNCTIONAL GUIDELINES). THE ASSESSMENT MADE FOR EACH QC PARAMETER IS SOLELY BASED ON THE TECHNICAL DATA USABILITY, WHICH MAY NOT NECESSARILY BE AFFECTED BY CONTRACTUAL PROBLEMS. THE ASSESSMENTS ARE DEFINED BELOW.

ORGANIC QA REVIEW  
CONTINUATION PAGE

Jones Road  
CASE 35059 SDG F1ZD0 SITE Ground Water Plume LAB LIBRTY

Acceptable = No results were qualified for any problem associated with this QC parameter.

Provisional = Some results were qualified because of problems associated with this QC parameter.

Unusable = All results are unusable because of major problems associated with this QC parameter.

1. **Holding Times:** Acceptable. All samples were analyzed within the contractual and technical holding time limits. The pH values indicated that the samples were preserved with acid.

**NOTE:** Polymerization of vinyl chloride and styrene is likely to occur in acid-preserved samples and could cause low biased results for these analytes.

2. **Tuning/Performance:** Acceptable. BFB analyses met GC/MS tuning criteria.

3. **Calibrations:** Acceptable. All calibrations met contractual criteria. Some target analytes failed technical %D calibration criteria. However, data qualification was not required for these analytes because they were not detected in the associated samples.

4. **Blanks:** Provisional. The method and storage blanks met contractual criteria. Acetone was detected at concentrations below the CRQL in both method blanks. The acetone detected in the storage blank was possibly introduced during sample analysis, not sample storage. The effects of the laboratory contamination are summarized below.

- The acetone result above the CRQL for sample F2022 was qualified as undetected ("U"), and the reported concentration should be used as a raised quantitation limit ("M").
- The acetone result below the CRQL for sample F2021 should be considered undetected and was flagged "U" at the CRQL on the DST.

Trip/Field Blanks: All field samples of this SDG were associated with trip blank sample F2021 and field blank sample F2022. Both field and trip blanks contained methyl tert-butyl ether,

ORGANIC QA REVIEW  
CONTINUATION PAGE

Jones Road  
CASE 35059 SDG F1ZD0 SITE Ground Water Plume LAB LIBERTY

chloromethane, toluene, and styrene at concentrations below the CRQL's. The chloromethane and methyl tert-butyl ether results below the CRQL's for sample F2024 should be considered undetected and were flagged "U" at the CRQL's on the DST.

**5. Deuterated Monitoring Compounds (DMC's)/Surrogates:**

Acceptable. All samples met contractual DMC recovery criteria although one sample had a marginally low VDMC3 recovery which did not require data qualification.

**6. Matrix Spike/Matrix Spike Duplicate/Laboratory Control Sample (MS/MSD/LCS):** Acceptable. The MS/MSD results met the QC criteria for percent recovery. The RPD's exceeded the QC limits for all spiking compounds. Since the spiking compounds were not detected in the native sample, data qualification was not required.

**7. Other QC:**

**Field Duplicates:** Acceptable. The field duplicate results were consistent.

**8. Internal Standards (IS):** Acceptable. Internal standard performance was acceptable for all analyses.

**9. Compound Identity (ID)/Quantitation:** Acceptable. The only target compound detected at a concentration above the CRQL was the laboratory contaminant acetone in one sample. No compound ID or quantitation problem was detected.

**10. Performance/Completeness:** Acceptable. A laboratory resubmission was received in response to the CCS Report. The resubmitted pages were used to replace the corresponding ones in the data package. The data package was complete. The DST in this report is the final version.

**11. Overall Assessment:** Results were acceptable for four samples. The acetone result was qualified for sample F2022 because of a laboratory contamination problem.

## HEADER DEFINITIONS FOR ORGANIC EXCEL DST

CASE: Case Number  
SDG: SDG Number  
EPASAMP: EPA Sample Number  
LABID: Laboratory File/Sample ID  
MATRIX: Sample Matrix  
ANDATE: Sample Analysis Date  
ANTIME: Sample Analysis Time  
CASNUM: Compound CAS Number  
ANALYTE: Compound Name  
CONC: Compound Concentration  
VALDQAL: Region 6 Organic Data Validation Qualifier (see Organic Data Qualifier Definitions on the next page)  
UNITS: Concentration Units  
ADJCRQL: Adjusted Contract Required Quantitation Limit Value  
SMPDATE: Sampling Date  
STATLOC: Station Location

**Disclaimer:** ESAT verified the accuracy of the information reported in the Excel DST only for the following data fields: CASE, SDG, EPASAMP, MATRIX, ANALYTE, CONC, UNITS, and VALDQAL. The data qualifiers in the VALDQAL column indicate the technical usability of the reported results.

## ORGANIC DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the ESAT-Region 6 qualifiers assigned to results in the Data Summary Table.

- U Not detected at reported quantitation limit.
- N Identification is tentative.
- J Estimated value.
- L Reported concentration is below the CRQL.
- M Reported concentration should be used as a raised quantitation limit because of interferences and/or laboratory contamination.
- R Unusable.
- ^ High biased. Actual concentration may be lower than the concentration reported.
- v Low biased. Actual concentration may be higher than the concentration reported.
- F+ A false positive exists.
- F- A false negative exists.
- B This result may be high biased because of laboratory/field contamination. The reported concentration is above 5X or 10X the concentration reported in the method/field blank.
- UJ Estimated quantitation limit.
- T Identification is questionable because of absence of other commonly coexisting pesticides.
- \* Result not recommended for use because of associated QA/QC performance inferior to that from other analysis.
- W The result should be used with caution. The result was reported on a dry weight basis although the sample did not conform to the EPA Office of Water definition of a soil sample because of its high water content (>70% moisture).











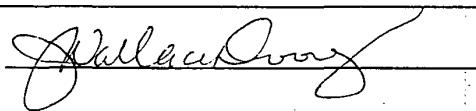
# INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. 35059 SDG No. F1ZD0 SDG Nos. To Follow \_\_\_\_\_ SAS No. \_\_\_\_\_ Date Rec 2/23/06

EPA Lab ID: <u>LIBRTY</u> Lab Location: <u>Cary, NC</u> Region: <u>6</u> Audit No.: <u>35059/F1ZD0</u> Resubmitted CSF? Yes _____ No <u>X</u> Box No(s): <u>1</u> COMMENTS:	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">ORIGINALS</th> <th style="width: 10%;">YES</th> <th style="width: 10%;">NO</th> <th style="width: 10%;">N/A</th> </tr> </thead> <tbody> <tr> <td colspan="4"><b>CUSTODY SEALS</b></td> </tr> <tr> <td>1. Present on package?</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td></td> <td></td> </tr> <tr> <td>2. Intact upon receipt?</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td></td> <td></td> </tr> <tr> <td colspan="4"><b>FORM DC-2</b></td> </tr> <tr> <td>3. Numbering scheme accurate?</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td></td> <td></td> </tr> <tr> <td>4. 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Over for additional comments.

Audited by:



Wallace Doong / ESAT Data Reviewer

Date 3/14/06

Audited by:



\_\_\_\_\_

Date \_\_\_\_\_

Audited by:



\_\_\_\_\_

Date \_\_\_\_\_

Signature

Printed Name/Title

DC-2 \_\_\_\_\_



**USEPA Contract Laboratory Program**  
**Organic Traffic Report & Chain of Custody Record**

Case No: 35059  
DAS No:

R

Region: 6	Date Shipped: 2/16/2006	Chain of Custody Record	
Project Code: 118528	Carrier Name: UPS	Sampler Signature: <i>[Signature]</i>	
Account Code:	Airbill: 1Z66V0692210003701		
CERCLIS ID:	Shipped to: Liberty Analytical Corporation 501 Madison Avenue Cary NC 27513 (919) 379-4100		
Spill ID:		Relinquished By	(Date / Time)
Site Name/State: JONES RD GW PLUME FEDERAL SUPERFUND		Received By	(Date / Time)
Project Leader: BILL HARDMANT			
Action:			
Sampling Co: Shaw Environmental, Inc.			

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	QC Type
F1ZD0	Ground Water	/G	VOA-3.2 (7)	417427 (HCL), 417428 (HCL), 417429 (HCL), 417430 (HCL), 417431 (HCL), 417432 (HCL), 417433 (HCL), 417434 (HCL), 417435 (HCL) (9)	TH11635	S: 2/16/2006 9:39		--
F1ZH4	Ground Water	/G	VOA-3.2 (7)	417628 (HCL), 417629 (HCL), 417630 (HCL) (3)	TT11015-1	S: 2/16/2006 8:16		--
F1ZH5	Ground Water	/G	VOA-3.2 (7)	417631 (HCL), 417632 (HCL), 417633 (HCL) (3)	TT11015-2	S: 2/16/2006 8:18		--
F1ZH6	Ground Water	/G	VOA-3.2 (7)	417634 (HCL), 417635 (HCL), 417636 (HCL) (3)	TT11015-3	S: 2/16/2006 8:20		--
F1ZJ3	Ground Water	/G	VOA-3.2 (7)	382421 (HCL), 382422 (HCL), 382423 (HCL) (3)	TT11106-1	S: 2/16/2006 9:35		--
F1ZJ4	Ground Water	/G	VOA-3.2 (7)	382424 (HCL), 382425 (HCL), 382426 (HCL) (3)	TT11106-2	S: 2/16/2006 9:40		--
F1ZJ5	Ground Water	/G	VOA-3.2 (7)	382427 (HCL), 382428 (HCL), 382429 (HCL) (3)	TT11106-3	S: 2/16/2006 9:45		--
F1ZJ6	Ground Water	/G	VOA-3.2 (7)	382406 (HCL), 382407 (HCL), 382408 (HCL) (3)	TT11107-1	S: 2/16/2006 8:35		--
F1ZJ7	Ground Water	/G	VOA-3.2 (7)	382409 (HCL), 382410 (HCL), 382411 (HCL) (3)	TT11107-2	S: 2/16/2006 8:40		--

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Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: F1Z53, F1ZD0	Additional Sampler Signature(s): <i>[Signature]</i>	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High VOA-3.2 = CLP TCL VOCs by OLCU3.2	Type/Designate: Composite = C, Grav = G	Shipment Iced?

TR Number: 6-043013577-021606-0015

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

F2V5.1.047 Page 2 of 3



**USEPA Contract Laboratory Program**  
**Organic Traffic Report & Chain of Custody Record**

Case No: 35059  
DAS No:

R

Region: 6	Date Shipped: 2/16/2006	Chain of Custody Record	
Project Code: 118528	Carrier Name: UPS	Sampler Signature:	
Account Code:	Airbill: 1Z66V0692210003701	Relinquished By (Date / Time)	Received By (Date / Time)
CERCLIS ID:	Shipped to: Liberty Analytical Corporation		
Spill ID:	501 Madison Avenue	2	
Site Name/State: JONES RD GW PLUME FEDERAL SUPERFUND	Cary NC 27513	3	
Project Leader: BILL HARDMANT	(919) 379-4100	4	
Action: Sampling Co: Shaw Environmental, Inc.			

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	QC Type
F1ZJ8	Ground Water	/G	VOA-3.2 (7)	382412 (HCL), 382413 (HCL), 382414 (HCL) (3)	TT11107-3	S: 2/16/2006 8:45		--
F1ZK2	Ground Water	/G	VOA-3.2 (7)	382430 (HCL), 382431 (HCL), 382432 (HCL) (3)	TT11123-1	S: 2/16/2006 10:35		--
F2021	Field QC	/G	VOA-3.2 (7)	423739 (HCL), 423740 (HCL), 423741 (HCL) (3)	TRIP BLANK 15	S: 2/16/2006 5:30		Trip Blank
F2022	Field QC	/G	VOA-3.2 (7)	417407 (HCL), 417408 (HCL), 417409 (HCL) (3)	FIELD BLANK 15	S: 2/16/2006 7:45		Field Blank
F2024	Ground Water	/G	VOA-3.2 (7)	417584 (HCL), 417585 (HCL), 417586 (HCL) (3)	JR11655A	S: 2/16/2006 8:10		Field Duplicate
F2025	Ground Water	/G	VOA-3.2 (7)	417422 (HCL), 417423 (HCL), 417424 (HCL) (3)	ES11703A	S: 2/16/2006 9:20		Field Duplicate

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Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: F1Z53, F1ZD0	Additional Sampler Signature(s):  	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High VOA-3.2 = CLP TCL VOCs by OLC03.2	Type/Designate: Composite = C, Grab = G	Shipment Iced?

TR Number: 6-043013577-021606-0015

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

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